

EXHIBIT 1.5 REQUIRED EXPERTISE FOR CULTURAL RESOURCES ACTIONS

The tables below outline the types of expertise that are required for actions under the Section 106 Programmatic Agreement (Table 1) and for archaeological activities (Table 2).

TABLE 1: PQS LEVELS REQUIRED FOR ACTIONS TAKEN UNDER SECTION 106 PA

ACTION TAKEN UNDER SECTION 106 PA	PQS Level Arch. Crew Member ▲	Lead Arch. Surveyor	Co-Principal Investigator Prehistoric Archaeology	Co-Principal Investigator Historical Archaeology	Principal Investigator – Prehistoric Archaeology	Principal Investigator – Historical Archaeology	Architectural Historian	Principal Architectural Historian
Screen an undertaking		✓	✓ +	✓ +	✓ +	✓ +	✓ +	✓ +
Set APE in consultation with Project Engineer		✓ +	✓ +	✓ +	✓ +	✓ +	✓ +	✓ +
Determine archaeological property types in Section 106 PA Attachment 4 as exempt from evaluation		✓	✓	✓	✓	✓		
Determine architectural & historical property types 1, 2, and 3 exempt from evaluation in Section 106 PA Attachment 4		✓	✓	✓	✓	✓	✓	✓
Determine architectural and historical property types 4, 5, and 6 exempt from evaluation in Section 106 PA Attachment 4							✓	✓
Conduct archaeological Extended Phase I (prehistoric)			✓		✓			
Conduct archaeological Extended Phase I (historical)				✓		✓		
Evaluate historical archaeological site (excavation <u>not</u> required)				*+		✓ +		
Evaluate prehistoric archaeological site			*		✓			
Evaluate historical archaeological site (excavation required)				*		✓ +		
Evaluate Native American TCP					✓			
Evaluate non-Native American TCP								✓ +
Evaluate built environment feature (<i>ditches, roads, trails, RR grades</i>)				*+		✓ +	*+	✓ +
Evaluate vernacular landscapes						✓ +	*+	✓ +
Evaluate buildings, structures (<i>including bridges</i>), objects, and districts							✓	✓

ACTION TAKEN UNDER SECTION 106 PA	PQS Level	Arch. Crew Member ▲	Lead Arch. Surveyor	Co-Principal Investigator Prehistoric Archaeology	Co-Principal Investigator Historical Archaeology	Principal Investigator – Prehistoric Archaeology	Principal Investigator – Historical Archaeology	Architectural Historian	Principal Architectural Historian
Evaluate designed landscapes (<i>parks, formal gardens, etc.</i>)								✓	✓
Evaluate historic-era sites (<i>battlefields, treaty-signing sites, internment camps, etc.</i>)							✓ +	✓ +	✓ +
Establish ESA for archaeological site (prehistoric or historical)				✓	✓	✓	✓		
Establish ESA for non-archaeological property						✓ +	✓ +		✓
Conduct archaeological data recovery (prehistoric site)				*		✓			
Conduct archaeological data recovery (historical archaeological site)					*		✓		

Key: ▲ = May assist in archaeological surveys and excavations under the direction of a qualified Lead Archaeological Surveyor or higher
 ✓ = PQS level(s) qualified to perform task
 * = PQS level(s) qualified to perform task with review from higher level
 + = Interdisciplinary collaboration strongly recommended

TABLE 2: PQS LEVELS REQUIRED FOR ARCHAEOLOGICAL ROLES

Table indicates what roles the different PQS staff levels are qualified to play in different types of archaeological studies.

Role Played in Study	Acceptable Qualification Levels for Each Role by Study Type							
	Survey	Extended Phase I - Prehistoric	Extended Phase I - Historical	Site Evaluation Prehistoric	Site Evaluation Historical	Data Recovery – Prehistoric	Data Recovery – Historical	Construction Monitoring
Crew Member	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H
Crew Chief	2, 3P, 3H, 4P, 4H	2, 3P, 3H, 4P, 4H	2, 3P, 3H, 4P, 4H	2, 3P, 3H, 4P, 4H	2, 3P, 3H, 4P, 4H	2, 3P, 3H, 4P, 4H	2, 3P, 3H, 4P, 4H	2, 3P, 3H, 4P, 4H
Principal Investigator	2, 3P, 3H, 4P, 4H	3P, 3H, 4P, 4H	3H, 4H	4P	3H*, 4H	3P*, 4P	3H*, 4H	3P, 3H, 4P, 4H
Primary Author of Report	2, 3P, 3H, 4P, 4H	3P, 3H, 4P, 4H	3H, 4H	4P	4H	4P	4H	3P, 3H, 4P, 4H
Secondary Author of Report	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H	1, 2, 3P, 3H, 4P, 4H
Contract Coordinator	3P, 3H, 4P, 4H	3P, 3H, 4P, 4H	3P, 3H, 4P, 4H	3P, 4P	3H, 4H	3P, 4P	3H, 4H	3P, 3H, 4P, 4H

Key

1 = Archaeological Crew Member
2 = Lead Archaeological Surveyor
3P = Co-Principal Investigator – Prehistoric Archaeology
3H = Co-Principal Investigator – Historical Archaeology
4P = Principal Investigator – Prehistoric Archaeology
4H = Principal Investigator – Historical Archaeology
* = PQS level(s) qualified to perform task with review from higher level

Example: Only individuals certified as a Co-Principal Investigator (Historical) or Principal Investigator (Historical) are qualified to serve as Principal Investigator at data recovery excavations at a historic archaeological site. Asterisk indicates that the Co-PI should be overseen by a PI.